AMENDMENTS

This listing of claims will replace all prior versions and listings of claims in the prior application:

Claim 45. (currently amended) A transformed plant, a plastid of which comprises:

- (a) a polypeptide encoded by a nucleotide sequence encoding a branched chain oxoacid dehydrogenase complex $\text{El}\alpha$ subunit protein, said nucleotide sequence selected from the group consisting of:
 - (i) the nucleotide sequence shown in SEQ ID NO:11, or the complement thereof;
 - (ii) a nucleotide sequence that hybridizes to said nucleotide sequence of (i) under a wash stringency equivalent to 0.1X SSC to 2.0X SSC, 0.1% SDS, at 55-65°C 55°C, and which encodes a polypeptide having enzymatic activity differing from that of Arabidopsis thaliana branched chain 2-oxoacid dehydrogenase complex E1α subunit by about 30% or less;
 - (iii) a nucleotide sequence encoding the same amino acid sequence as said nucleotide sequence of (i), but which is degenerate in accordance with the degeneracy of the genetic code; and
 - (iv) a nucleotide sequence encoding the same amino acid sequence as said nucleotide sequence of (ii), but which is degenerate in accordance with the degeneracy of the genetic code;
- (b) a polypeptide encoded by a nucleotide sequence encoding a branched chain oxoacid dehydrogenase complex $\text{E1}\beta$ subunit protein, said nucleotide sequence selected from the group consisting of:

- (i) the nucleotide sequence shown in SEQ ID NO:13, or the complement thereof;
- (ii) a nucleotide sequence that hybridizes to said nucleotide sequence of (i) under a wash stringency equivalent to 0.1X SSC to 2.0X SSC, 0.1% SDS, at 55-65°C 55°C, and which encodes a polypeptide having enzymatic activity differing from that of Arabidopsis thaliana branched chain 2-oxoacid dehydrogenase complex E1β subunit by about 30% or less;
- (iii) a nucleotide sequence encoding the same amino acid sequence as said nucleotide sequence of (i), but which is degenerate in accordance with the degeneracy of the genetic code; and
- (iv) a nucleotide sequence encoding the same amino acid sequence as said nucleotide sequence of (ii), but which is degenerate in accordance with the degeneracy of the genetic code;
- (c) a polypeptide encoded by a nucleotide sequence encoding a branched chain oxoacid dehydrogenase complex E2 component protein, said nucleotide sequence selected from the group consisting of:
 - (i) the nucleotide sequence shown in SEQ ID NO:15, or the complement thereof;
 - (ii) a nucleotide sequence that hybridizes to said nucleotide sequence of (i) under a wash stringency equivalent to 0.1% SSC to 2.0% SSC, 0.1% SDS, at 55-65°C, and which encodes a polypeptide having enzymatic activity differing from that of Arabidopsis thaliana branched chain 2-oxoacid dehydrogenase complex E2 subunit by about 30% or less;

- (iii) a nucleotide sequence encoding the same amino acid sequence as said nucleotide sequence of (i), but which is degenerate in accordance with the degeneracy of the genetic code; and
- (iv) a nucleotide sequence encoding the same amino acid sequence as said nucleotide sequence of (ii), but which is degenerate in accordance with the degeneracy of the genetic code; and
- a polypeptide encoded by a nucleotide sequence encoding an enzyme that enhances the biosynthesis of 2-oxobutyrate an enzyme selected from the group consisting of aspartate kinase, homoserine dehydrogenase, threonine synthase, and threonine deaminase.

Claim 46. (previously presented) The plant of claim 45, wherein:

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- (a) the nucleotide sequence in (a)(ii) encodes a polypeptide having enzymatic activity differing from that of Arabidopsis thaliana branched chain 2-oxoacid dehydrogenase complex Elα subunit by about 20% or less;
- (b) the nucleotide sequence in (b)(ii) encodes a polypeptide having enzymatic activity differing from that of Arabidopsis thaliana branched chain 2-oxoacid dehydrogenase complex E1β subunit by about 20% or less; and
- (c) the nucleotide sequence in (c)(ii) encodes a polypeptide having enzymatic activity differing from that of Arabidopsis thaliana branched chain 2-oxoacid dehydrogenase complex E2 component by about 20% or less.

Claim 47. (previously presented) The plant of claim 45, wherein:

- (a) the nucleotide sequence in (a)(ii) encodes a polypeptide having enzymatic activity differing from that of Arabidopsis thaliana branched chain 2-oxoacid dehydrogenase complex E1α subunit by about 10% or less;
- (b) the nucleotide sequence in (b)(ii) encodes a polypeptide having enzymatic activity differing from that of Arabidopsis thaliana branched chain 2-oxoacid dehydrogenase complex E1β subunit by about 10% or less; and
- (c) the nucleotide sequence in (c)(ii) encodes a polypeptide having enzymatic activity differing from that of Arabidopsis thaliana branched chain 2-oxoacid dehydrogenase complex E2 component by about 10% or less.

Claims 48-51. Canceled.

Claim 52. (currently amended) The plant of claim 45, wherein

- the nucleotide sequence encoding a branched chain oxoacid dehydrogenase complex E1α subunit protein is
 SEQ ID NO: 11;
- (b) the nucleotide sequence encoding a branched chain oxoacid dehydrogenase complex $E1\beta$ subunit protein is SEQ ID NO: 13; and
- (c) the nucleotide sequence encoding a branched chain oxoacid dehydrogenase complex E2 component protein, is SEQ ID NO: 15.; and
- (d) the nucleotide sequence encoding an enzyme that enhances
 the biosynthesis of 2-oxobutyrate is selected from the
 group of nucleotide sequences consisting of those that

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encode aspartate kinase, homoserine dehydrogenase, threonine synthase, and threonine deaminase.

- Claim 53. (previously presented) The plant of claim 52, wherein the enzyme that enhances the biosynthesis of 2-oxobutyrate is aspartate kinase.
- Claim 54. (previously presented) The plant of claim 52, wherein the enzyme that enhances the biosynthesis of 2-oxobutyrate is homoserine dehydrogenase.
- Claim 55. (previously presented) The plant of claim 52, wherein the enzyme that enhances the biosynthesis of 2-oxobutyrate is threonine synthase.
- Claim 56. (previously presented) The plant of claim 52, wherein the enzyme that enhances the biosynthesis of 2-oxobutyrate is threonine deaminase.
- Claim 57. (previously presented) The plant of claim 45, wherein the plant is a monocot.
- Claim 58. (previously presented) The plant of claim 52, wherein the plant is a monocot.
- Claim 59. (previously presented) The plant of claim 45, wherein the plant is a dicot.
- Claim 60. (previously presented) The plant of claim 52, wherein the plant is a dicot.

- Claim $\frac{13}{61}$. (previously presented) The plant of claim $\frac{1}{45}$, wherein the plastid is a seed plastid.
- Claim 62. (previously presented) The plant of claim 52, wherein the plastid is a seed plastid.
- Claim 63. (previously presented) The plastid of claim 61, wherein the seed plastid is a leucoplast.
- Claim 4. (previously presented) The plastid of claim 62, wherein the seed plastid is a leucoplast.
- Claim 65. (previously presented) The plant of claim 45, wherein the plastid is a leaf chloroplast.
- Claim &6. (previously presented) The plant of claim 52, wherein the plastid is a leaf chloroplast.
- Claim 67. (previously presented) The plant of claim 45, wherein the plant is Arabidopsis.
- Claim 68. (previously presented) The plant of claim 52, wherein the plant is Arabidopsis.